IN THE CLAIMS:

1. **(Currently Amended)** A method of automatically fabricating a suprastructure to be attached to an implant with the help of a digital model description of the shape, comprising the following steps:

recording a real clinical situation or a shaped clinical situation of the implant [(3; 13)] as digital data,

analyzing this situation and determining the implant axis [(5; 16)],

computing the optimum shape of the suprastructure [(1, 2)], ~~and characterized by the following steps:~~

separating the suprastructure into a first element (1) and a second element (2), and

fabricating the individual elements from one or more blanks [(11)] on the basis of said digital data with the aid of machining equipment.

2. **(Currently Amended)** A method as defined in claim 1, ~~characterized in that~~ wherein a mating surface between the digitized first element [(1)] of the suprastructure on the one hand and the digitized second element [(2)] of the suprastructure on the other hand, is determined.

3. **(Currently Amended)** A method as defined in claim 1~~or claim 2, characterized in that~~, wherein the shape of that element of the suprastructure which is to be connected to the implant is described by at

least two of the following parameters: the shoulder width, the tilt angle of the suprastructure relative to the longitudinal axis [(5)] of said implant [(3)], the angle of rotation of the suprastructure about the longitudinal axis [(16)] in said blank [(11)], and the height of said post.

4. **(Currently Amended)** A method as defined in ~~any one of claims 1 to 3, characterized in that~~ claim 1, wherein one element of the suprastructure is an abutment and [that] the shape of an abutment [(2)] is optimized with reference to one or more or all the following parameters:

- a minimum value for the shoulder width;
- a maximum height of the post delimited by the tilt angle of the suprastructure relative to the longitudinal axis [(5)] of said implant [(3)], the geometry of said blank [(11)], and the height of the occlusal surface [(22)], the maximum height of the post being such that it is disposed at a maximum distance below the height of the occlusal surface [(22)];
- a minimum height of the post delimited by the position of the head of an occlusal screw [(14)];
- an angle of rotation of the abutment about the longitudinal axis in said blank [(11)], which is given by the relative position of said implant [(3; 13)] in the clinical situation.

5. **(Currently Amended)** A method as defined in ~~any one of claims 1 to 4, characterized in that~~ claim 1, wherein the shape of said

blank [(11)] and the shape of the dental suprastructure [(1, 2)] are described in the coordinate system of the geometry [(6; 14)] for attachment to said implant [(3; 13)].

6. **(Currently Amended)** A method as defined in ~~any one of claims 1 to 5, characterized in that~~ claim 1, wherein determination of the axis of said implant [(5; 16)] is effected interactively by the user.

7. **(Currently Amended)** A method as defined in ~~any one of claims 1 to 6, characterized in that~~ claim 1, wherein one element of the suprastructure is an abutment and a further element of the suprastructure is a crown.

8. **(Currently Amended)** A method as defined in ~~any one of claims 1 to 6, characterized in that~~ claim 1, wherein one element of the suprastructure is an abutment and a further element of the suprastructure is a cap.

9. **(Currently Amended)** A method as defined in a~~ny one of claims 1 to 6, characterized in that~~claim 1, wherein one element of the suprastructure is an abutment and a further element of the suprastructure is a reduced crown.

10. **(Currently Amended)** A method as defined in ~~any one of claims 1 to 6, characterized in that~~ claim 1, wherein the suprastructure comprises three elements, and a first element of the suprastructure is an abutment and a second element of the suprastructure is a partially veneered crown and the third element is a veneer, and [that] not only the

mating surface between said first and second elements but also a mating surface between said third element and said first element and/or said second element is/are computed.

11. **(Currently Amended)** A method as defined in ~~any one of claims 1 to 6, characterized in that~~ claim 1, wherein said suprastructure [(1')] comprises a number of abutments which are interconnected by a common frame construction.

12. **(Currently Amended)** A method as defined in ~~any one of claims 1 to 11, characterized in that~~ claim 1, wherein the distribution rules can be varied by the user.

13. **(Currently Amended)** A method as defined in ~~any one of claims 1 to 12, characterized in that~~ claim 1, wherein that element of the suprastructure which is connected to the implant is computed in its final size and [that] the further element of the suprastructure connected to this element is computed as a provisional suprastructure having exterior dimensions which are smaller than the final exterior dimensions while retaining the mating surface.

14. **(Currently Amended)** A method as defined in claim 13, ~~characterized in that~~ wherein the same data set is used to compute said element of the suprastructure with its final dimensions.